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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,421	11/12/2003	Wade Carter	8130 (FSP0445)	6799
88095 ARRIS 3871 Lakefield Drive Suwanee, GA 30024	7590 05/13/2010		EXAMINER TRAN, NGHI V	
			ART UNIT 2451	PAPER NUMBER
		NOTIFICATION DATE 05/13/2010	DELIVERY MODE ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

[mirho@fspllc.com](mailto:mirho@fspllc.com)

<b>Office Action Summary</b>	<b>Application No.</b> 10/706,421	<b>Applicant(s)</b> CARTER ET AL.
	<b>Examiner</b> NGHI V. TRAN	<b>Art Unit</b> 2451

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 08 March 2010.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-13, 17 and 26-29 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-13, 17 and 26-29 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_

5) Notice of Informal Patent Application  
 6) Other: \_\_\_\_\_

**DETAILED ACTION**

1. This office action is in response to the amendment filed on March 08, 2010. Claims 1, 13, and 17 have been amended. Claims 14-16 and 18-25 have been canceled. Claims 28-29 have been added. Therefore, claims 1-13, 17 and 26-29 are presented for further examination.

***Continued Examination Under 37 CFR 1.114***

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 08, 2010 has been entered.

***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
4. Claims 1-12 and 26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to

Art Unit: 2451

which it pertains, or with which it is most nearly connected, to make and/or use the invention. For instance, the applicants wrote in claim 1 "a plurality of individual configuration parameters that may be enable and disabled together" (emphasized added). The examiner consider the limitation "enable and disabled together" as failing to comply with the enablement requirement because the configuration parameters cannot enable and disable together at the same. Claims 2-12 and 26 are also rejected under 35 U.S.C. 112, first paragraph, for the same rationale of claim 1 above.

#### ***Claim Rejections - 35 USC § 101***

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 28-29 are rejected under 35 U.S.C. 101 because of the following reasons:

7. Claim 28 would reasonably be interpreted by one of ordinary skill as "machine-readable media" of software per se, failing to fall within a statutory category of invention. As such, the system of software means alone is not a machine, and it is clearly not a process, manufacture nor composition of matter. Although the claim recites "switch" the claim actually lacks the necessary physical articles / objects / elements / components / structure / hardware such as memory and a processor to constitute a machine or manufacture within the meaning of 35 USC 101, see page 5 of the specification. They

Art Unit: 2451

are clearly not a series of steps or acts to be process nor are they a combination of chemical compounds to be a composition of mater.

8. Claim 29 is also rejected under 35 U.S.C. 101 because they are directly on independent claim 28.

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

10. Claim 13, 17, and 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Synnestvedt et al., United States Patent Number 6,598,057 (hereinafter Synnestvedt), in view of Chapman et al., United States Patent Publication Number 2006/0262722 (hereinafter Chapman).

11. With respect to claims 13 and 28, Synnestvedt teaches a system for configuring a customer equipment [= cable modem 102] in a communication network [= Internet 108] [see abstract], comprising:

the customer equipment [= cable modem 102] comprising an operating software load embedded in a machine-readable media [= configuration files can be used to

Art Unit: 2451

define the equipments' operating mode such as downstream and upstream service assignments, assigned frequencies, data rates, modulation schemes, class of service, and type of service, col.5, II.11-32];

the operating software load comprising switch settings each controlling a predetermined group of device settings for compatible operation between the customer equipment and equipment of the communication network [= locate the CTMS Group based configuration policy, step 412 and col.9, II.43-62];

a configuration server device to adapt a configuration file with settings for the switches of operating software load of the customer equipment [= sending binary configuration file to the cable modem, step 316 of fig.3 and col.5, II.9-10]; and

the operating software load adapted to apply the settings of the switches in the configuration file [= software upgrades as well as providing the new service of dynamically generating DOCSIS compliant configuration files to cable modem, col.3, II.40-53] to set the switches of the operating software load on or off, thus enabling or disabling entire groups of settings of the customer equipment for each switch setting of the configuration file.

However, Synnestvedt does not explicitly show each switch turning a predetermined group of device settings on or off, thus enabling or disabling entire groups of settings of the customer equipment for each switch setting of the configuration file, each predetermined group comprising a plurality of settings which either are or are not implemented by a particular type of the equipment of the communication network.

In a related art, Chapman discloses each switch turning a predetermined group of device settings on or off [= switch from a first upstream channel to a second upstream channel, see abstract], thus enabling or disabling entire groups of settings of the customer equipment for each switch setting of the configuration file, each predetermined group comprising a plurality of settings which either are or are not implemented by a particular type of the equipment of the communication network [= CMTS includes software to enable the different line card, i.e. different group such as Group A **460a** and Group B **460b**, paragraphs 0044, 0074, and 0085 and fig.4].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Synnestvedt in view of Chapman by turning a predetermined group of device settings on or off, thus enabling or disabling entire groups of settings of the customer equipment for each switch setting of the configuration file, each predetermined group comprising a plurality of settings which either are or are not implemented by a particular type of the equipment of the communication network because this feature enables a dynamic channel change request [Chapman, paragraph 0017]. It is for this reason that one of ordinary skill in the art at the time of the invention would have been motivated in order to receive downstream transmissions on the selected downstream channel [Chapman, paragraph 0017].

12. With respect to claims 17 and 29, Synnestvedt further teaches wherein the switches of the operating software load control groups of TLV values that determine

Art Unit: 2451

content of messages between the customer equipment and the equipment of the communication network [col.14, ll.24 through col.15, ll.46].

13. With respect to claim 27, Synnestved further teaches logic configured to provision the customer equipment responsive to at least one of the representative values in the configuration file [fig.3].

***Response to Arguments***

14. Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGHI V. TRAN whose telephone number is (571)272-4067. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2451

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John Follansbee/  
Supervisory Patent Examiner, Art Unit 2451

Nghi V Tran  
Examiner  
Art Unit 2451

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